



The IBC RS422 interface is a 4-wire interface consisting of the following wires: TX+, TX-, RX+, RX-. Two wires are used for transmit, and two wires for receive. The suggested wire to use is shielded twisted pair cable, consisting of 2 pairs. This wire should be of the proper guage to ensure proper signals throughout the network based on the distance of your network. A minimum of 20 guage is recommended. Also, if you are supplying power to the readers through the same cable, you will obviously need 3-pair cable, and the guage must be large enough to ensure that the voltage drop of the cable does not cause the voltage at the readers to be below minimal requirements for the reader. Make sure that there is not more than a 0.7V drop in the ground potential from the pc connection point to the farthest point in the network wiring.

When connecting to your Rs422 convertor, please remember that Reader TX signals need to be connected to the convertor's RX terminals, and vice versa.

Readers may be wired as drops from a main network bus, home run directly to the convertor, or in any other fashion. For example, the following reader wiring runs are acceptable:

